

Cummins Progress Review

Agenda 3-27-08

Cummins Compliance Strategy Review

2007 Update

Product Performance Experience

Aftertreatment

2010 Architecture

By platform

Emissions Solutions

Fuel System

NOx Control

DPF

2010 Program

Master Schedule

Progress

Alpha Design

DVP&R Plan

Test Cell

Field Test

Emissions Status

AECDs

OBD

Background:

-2007 products launched successfully

*EGR, HPL

*DPF with DOC and HC doser

*VG Turbos (no two stage)

-Have announced that SCR will only be used for MR engines in 2010

-They have participated in the Urea Stakeholders Group

-Fleetguard is planning for urea distribution

Talking Points:

-Thank you for taking the time to give us an overview of your plans to successfully introduce clean diesel trucks.

-There are a number of technology paths that can be used to meet 2010 and we would like hear which how you selected your paths and how you have progressed

-2010 engines are vitally important:

*complete the order-of-magnitude reductions in PM and NOx

*2.6 million tons of NOx reduced

*110,000 tons of PM

*8,300 premature deaths prevented

Cummins Progress Review

- *1.5 million lost work days
- *7,100 hospital admissions/year
- On road diesel engines lay the groundwork for reductions in other applications
- Clean diesel engines will be a key technology for future GHG reductions
- 2007 fuel and engine technologies have been successfully launched
 - *ULSD has become the norm
 - *New engines have been 'transparent' to users (fuel economy, maintenance)
- 2010 will build on this success
 - *depends on similar end-user transparency and
 - * one path depends on readily available urea (DEF)
- DEF infrastructure

Attendees:

Steve Charlton -- Executive Engineer HD Engines
Jeff Weikert -- Executive Engineer MidRange Engines
Robert Jorgensen -- Executive Director Product Environmental Management
Sean Milloy -- Dodge Product Manager?
Tina Vujovich -- VP Marketing and Environmental Policy

CISD: Cle and Greg Orehowsky

2010 Product Line:

ISX, 11.9 I, 15 I, 16 I, 305-600 hp, 2000+ Bar common rail, HPL EGR w/Air-to-EGR cooling, DOC/DPF, and VGT
ISL, 9 I, 310-350 hp HPL EGR, SCR, DOC/DPF, and VGT
ISC, 8.3 I, 240-315 hp HPL EGR, SCR, DOC/DPF, and VGT
ISB, 6.7 I, 185-275 hp, HPL EGR, SCR, DOC/DPF, and VGT